

# PHOTON SCIENCES SAFETY NOTICE

## Liquid-Gas Cylinder Hand-Truck Awareness

Liquid-gas cylinder hand trucks similar to the Harper Model ULG65050-51 **(A)** use a spring-loaded hook assembly **(B)** to engage with the liquid nitrogen Dewar support ring.

This provides a positive point of contact allowing the Dewar to be tilted onto the hand truck for transport.

Failure of this spring assembly can result in a loss of control, allowing the Dewar to become separated from the hand truck, leading to a very dangerous situation.

If the spring is weak such that it fails to fully engage the Dewar, replacement springs can be purchased through welding suppliers using part number HDW-SP-UL650-8

The entire cart assembly can be replaced with a newer model from Harper (model number 650-50-51).

A potential replacement is an upright style cart such as the EZ Load 4L for SAFTCART **(C)**. This is a cart designed for any location where handling and maneuverability are paramount. Its phenolic wheels and swivel caster move easily and soundlessly over good terrain. Loading large liquid cylinders is simple due to the cart's low, front-loading platform. The cart can be used with platform scales to prevent the slamming of cylinders on scales. Grainger Item #5WYG3

